



DoD Materiel Readiness and **Maintenance Policy**

FACT BOOK



OFFICE OF THE DEPUTY UNDER SECRETARY OF DEFENSE (LOGISTICS AND MATERIEL READINESS) 3500 DEFENSE PENTAGON WASHINGTON DC 20301-3500

Defense maintenance is big business, costing more than \$81 billion in FY2005 (including all wartime supplemental funding) and involving more than 659,000 military and civilian maintainers who—along with several thousand commercial firms—support approximately 280 ships, 14,000 aircraft, 900 strategic missiles, and 330,000 ground combat and tactical vehicles.

The DoD Materiel Readiness and Maintenance Policy Fact Book contains a broad range of information about DoD maintenance capabilities and programs that span major depots and shipyards as well as intermediate and organizational-level units around the world.

Also included are the winners of the 2005 and 2006 Secretary of Defense maintenance awards.

David V. Pauling
Assistant Deputy Under Secretary of Defense
(Materiel Readiness and Maintenance Policy)

Table of Contents

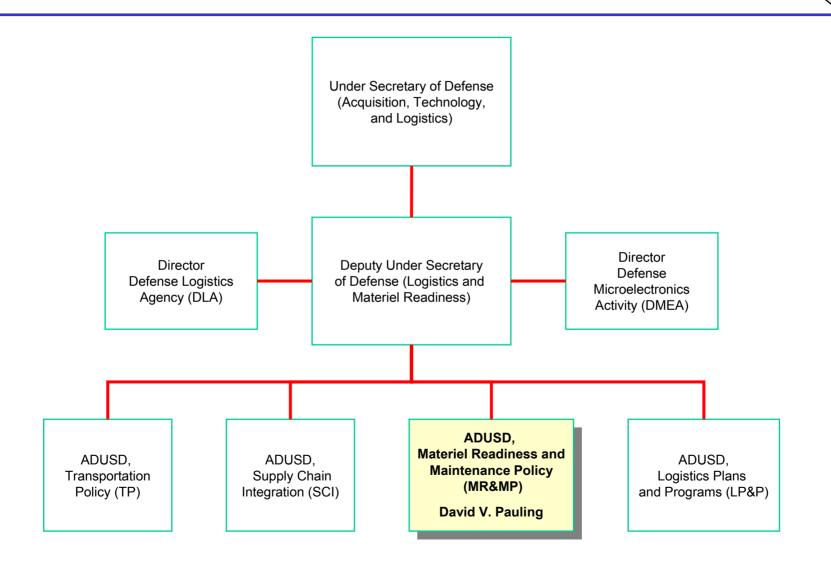
1
2
3
4
5
6
7
8
Ć
10
11
12
13
14
15

Table of Contents

Field Maintenance	
Major Intermediate Maintenance Activities	6
Depot Maintenance	
Major Depot-Level Activities	7
Organic-Commercial Mix of DoD Depot Maintenance Workload 18	8
Workload Distribution by Major System Category	9
Capacity Utilization of Organic Depot Maintenance	0
Public-Private Partnership Growth Trend	1
DoD Maintenance Awards	
2005 Phoenix Award Winner	2
2005 Secretary of Defense Maintenance Award Winners	3
2006 Secretary of Defense Maintenance Award Winners	4
2006 Robert T. Mason Award for Depot Maintenance Excellence 25	5
Reference	
Acronyms	6
Explanatory Notes	8

OSD Logistics Organization

Overview.



DoD Jiew

Mission Statement

ADUSD(MR&MP):

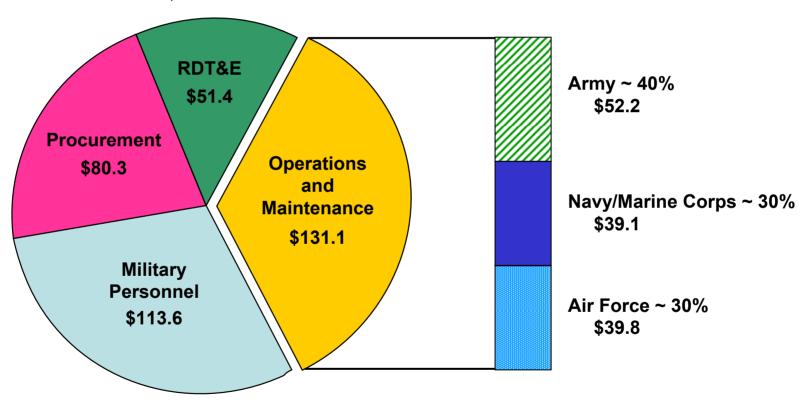
- Materiel Readiness—Principal advisor for policies and procedures designed to achieve and sustain planned weapon system and equipment materiel readiness. Responsible for aligning and integrating the efforts of the functional specialties comprising the end-to-end weapon system sustainment value chain: post-production materiel acquisition, materiel distribution, materiel supply support, materiel maintenance, and sustaining engineering. Key goals include enhancing materiel readiness policies and procedures, optimizing materiel readiness resource distribution, providing materiel readiness performance-to-plan oversight, and leading continuous process improvement within the sustainment enterprise.
- Maintenance Policy—Provides guidance and oversight to ensure all DoD weapon and
 equipment items are maintained in accordance with approved policies and procedures.
 Principal sponsor for cross-Service programs to improve maintenance capability and
 reduce maintenance costs. Integrates and supports Service maintenance budgets within
 the Planning, Programming, Budgeting, and Execution System (PPBES). Key goals include
 establishing managerially and technologically sound, adequately resourced maintenance
 policies and programs that contribute to the sustained readiness of defense material and
 the successful accomplishment of DoD missions.

FY2006 Budget

for the Military Services (in billions)



Total: \$376.4 billion



Does not include military construction, family housing, or revolving and management funds.

Overview

PBL Implementation Status

	Total ACAT I & II Programs	Current PBL Programs	Scheduled PBL Programs	Total ACAT I & II PBL Programs
Army	60	18	28	46
Navy and Marine Corps	85	35	23	58
Air Force	70	33	17	50
DoD	215	86	68	154

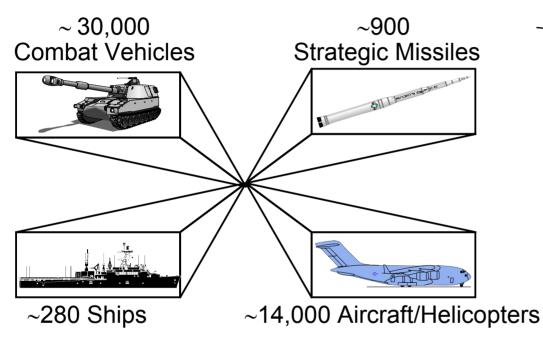
The number of performance-based logistics (PBL) programs in **all** acquisition categories (ACATs) exceeds 250

Does not include ACAT III and IV and subsystem PBL programs.

Source: Defense Acquisition University data as of July 2006

Systems Supported by DoD Maintenance

Maintenance Overview



- Maintained by:
- 659,000 DoD personnel
- Private sector companies

- + ~ 300,000 Tactical Vehicles
- + Communications/Electronics Equipment
- + Support Equipment
- + Other Systems

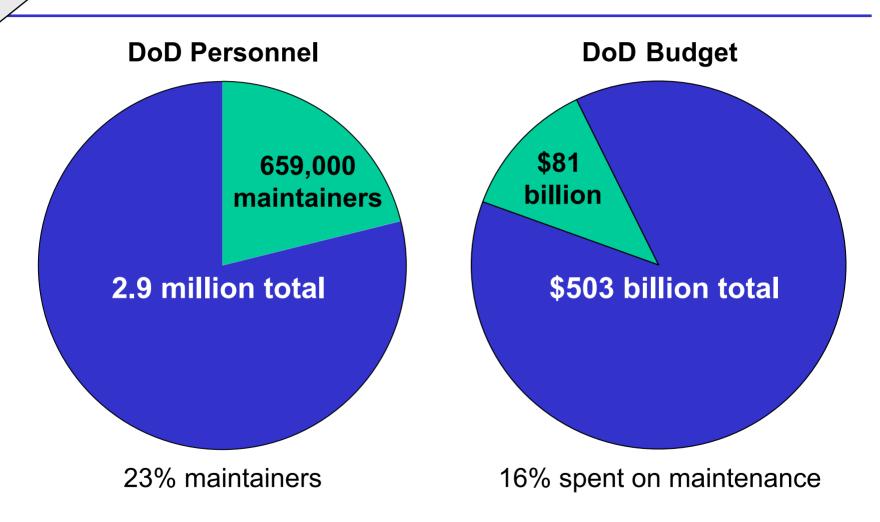
Maintenance cost:

~\$81 billion (FY2005)

DoD's military equipment is valued at ~\$300 billion.

Maintenance

Scope of DoD Maintenance



Levels of DoD Maintenance

Naintenance Overview







Organizational

Intermediate

Regional

Depot

Increasing volume of maintenance

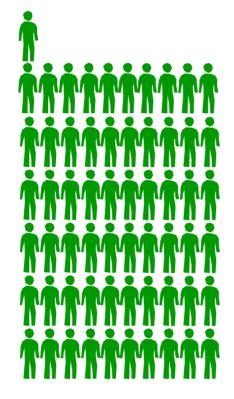
More frequent tasks that require less facilitization/skills

Less frequent tasks that require more facilitization/skills

Increasing complexity of maintenance

Maintenance

Personnel Strength of Field- and Depot-Level Maintenance



~614,000 field-level maintainers

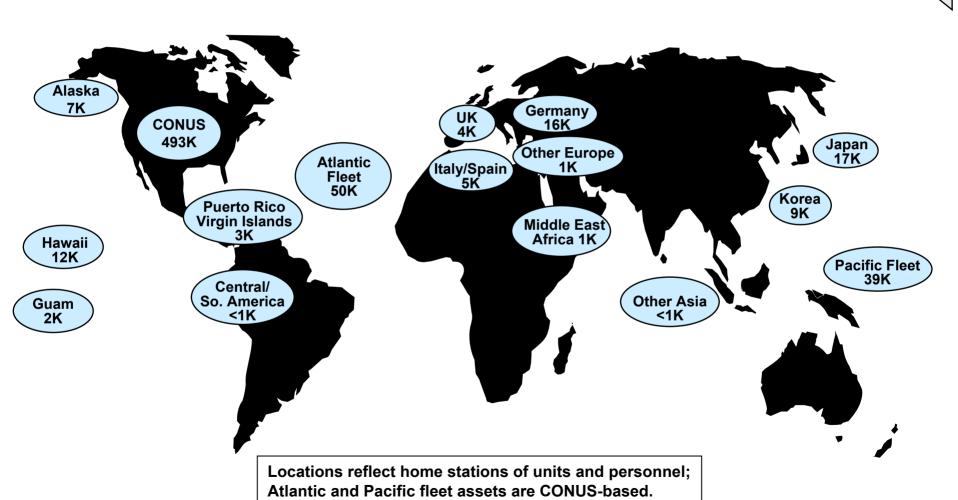


~73,000 depot-level personnel

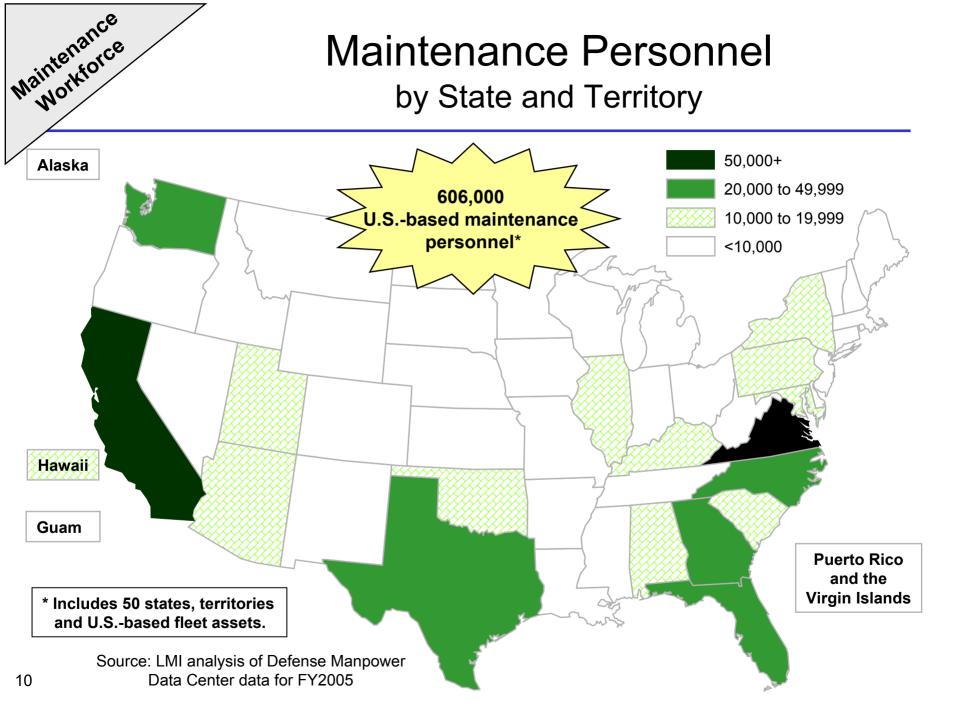
(including ~28,000 non-maintainers)

Maintenance Personnel Worldwide

Maintenance Workforce



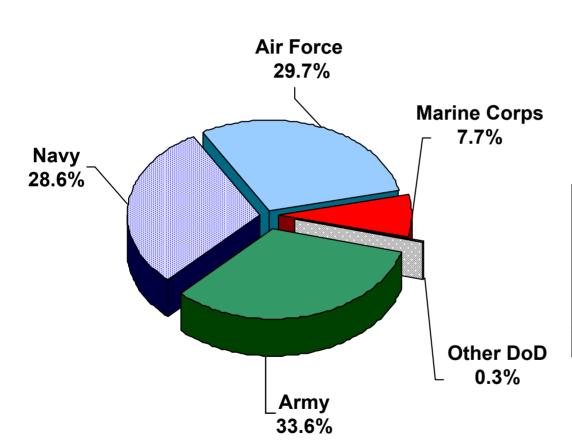
Source: LMI analysis of Defense Manpower Data Center data for FY2005



DoD Maintainers

by Military Service



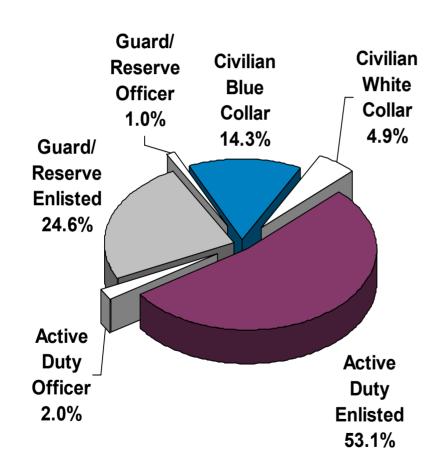


Army	221,000
Navy	189,000
Air Force	196,000
Marine Corps	51,000
Other DoD	2,000
Total DoD Maintainers	659,000

Source: LMI analysis of Defense Manpower Data Center data for FY2005 (Percentages may not equal 100% due to rounding.)

Maintenance

DoD Maintainers by Personnel Category



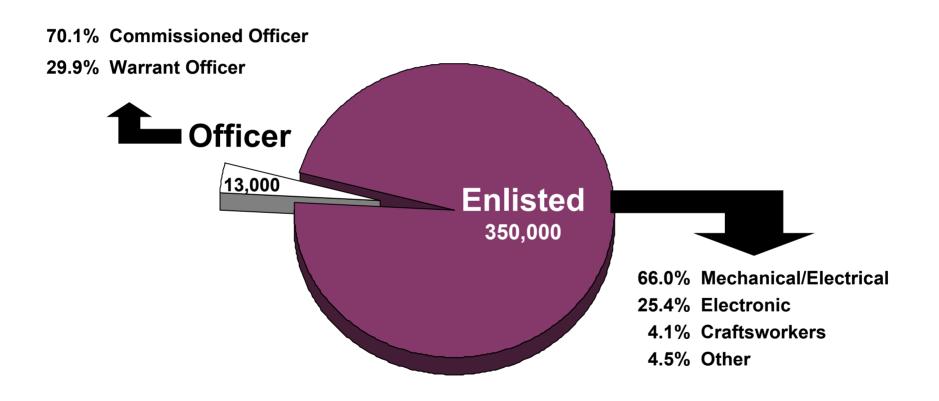
Active Duty Enlisted	350,000
Active Duty Officer	13,000
Guard/Reserve Enlisted	162,000
Guard/Reserve Officer	7,000
Civilian Blue Collar	94,000
Civilian White Collar	32,000
Total DoD Maintainers	659,000 ^a

^a Table numbers are the result of rounding.

Source: LMI analysis of Defense Manpower Data Center data for FY2005 (Percentages may not equal 100% due to rounding.)

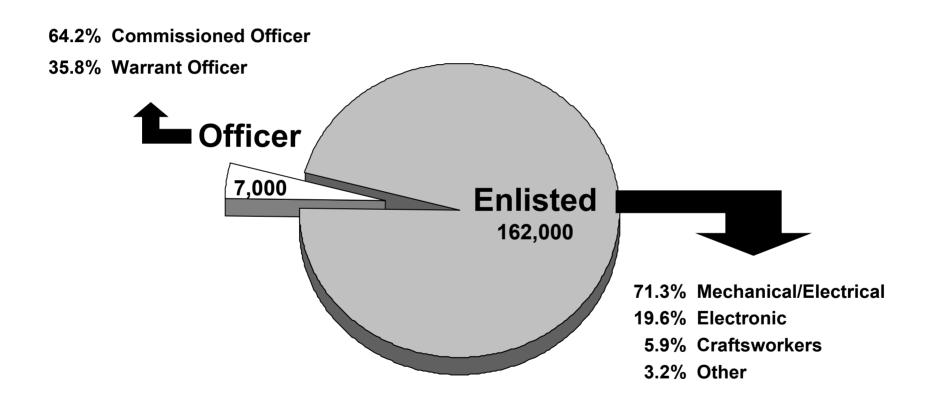
Active Duty Maintainers

Maintenance Workforce



Maintenance

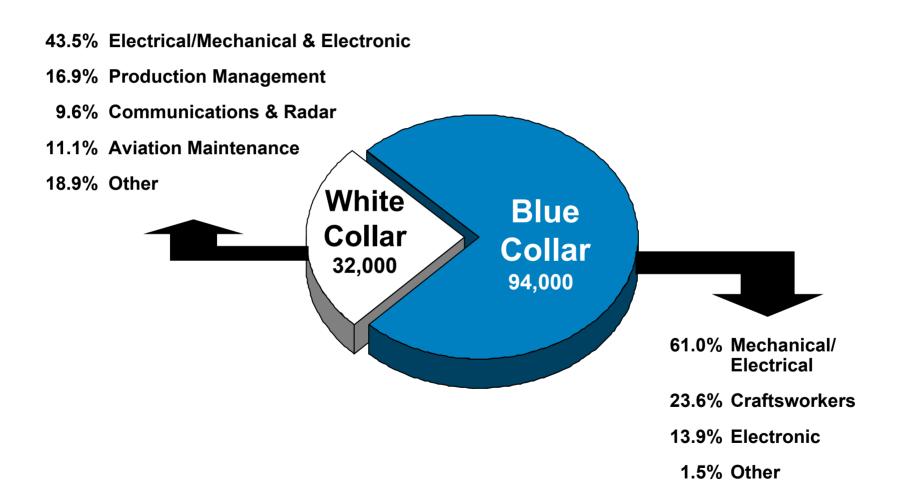
National Guard and Reserve Maintainers



DoD Civilian

Maintainers

Maintenance Workforce



Major Intermediate Maintenance Activities

Army

- 21 aviation intermediate maintenance (AVIM) companies
- 70+ direct support/general support (DS/GS) companies

Navy

- 15 shore-based aircraft intermediate maintenance detachments (AIMDs)
- 24 shipboard AIMDs
- 7 ship/submarine intermediate maintenance facilities (IMFs)

Air Force

– 61 aircraft and missile maintenance groups (MXGs)

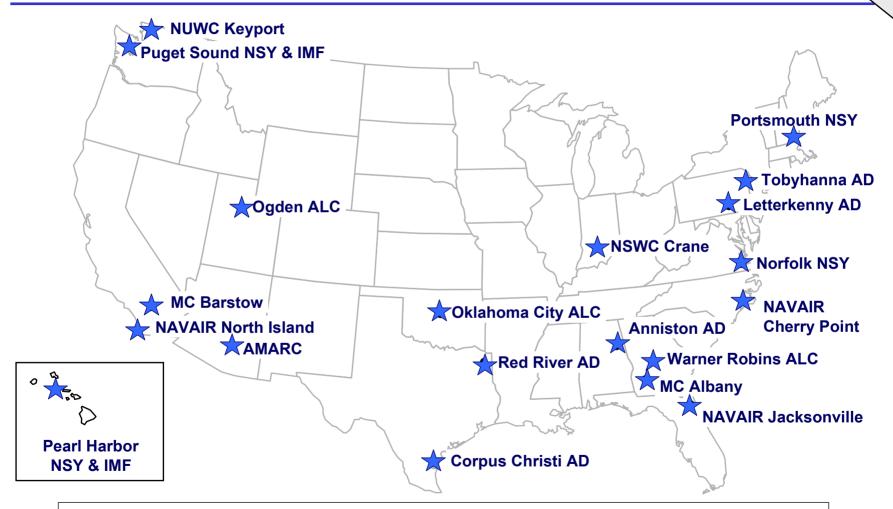
Marine Corps

- 11 Marine aviation logistics squadrons (MALS)
- 3 maintenance battalions

Does not include intermediate National Guard and Reserve maintenance activities.

Major Depot-Level Activities by Location

Maintenance

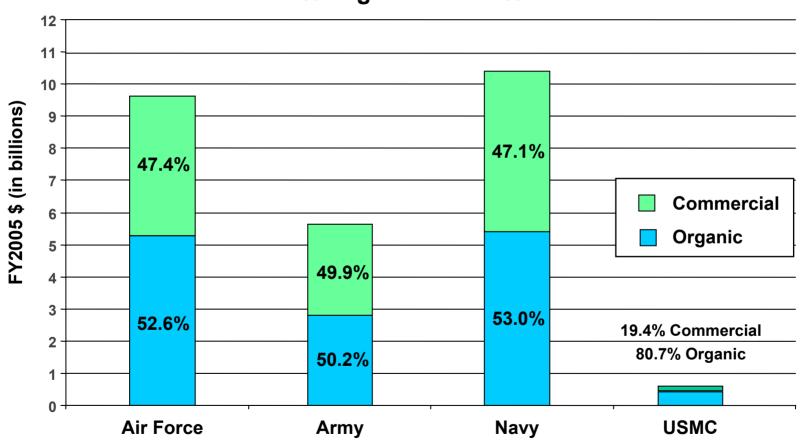


Major depot-level activities comprise depots and shipyards that employ 400 or more personnel.

Maintenance Maintenance

Organic-Commercial Mix of DoD Depot Maintenance Workload

DoD-wide: 53% Organic and 47% Commercial



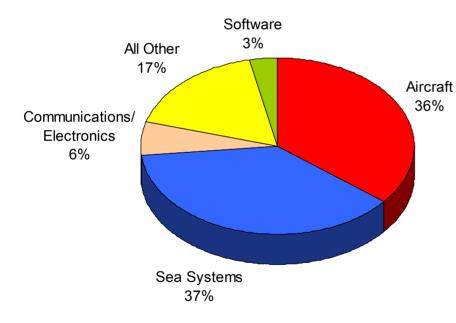
Source: DUSD(L&MR), Distribution of DoD Depot Maintenance Workloads: Fiscal Years 2005 through 2007, April 2006 (Percentages may not equal 100% due to rounding.)

Workload Distribution

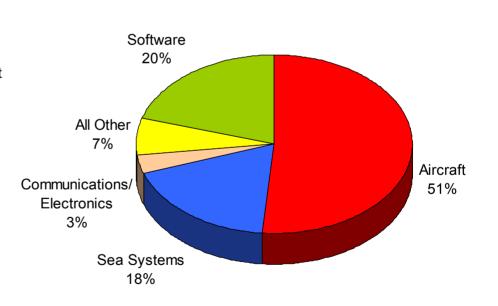
by Major System Category

Maintenance

Depot Maintenance Performed by DoD Organic Depots (Direct Labor Hours)



Depot Maintenance Performed by Defense Contractors (Cost)

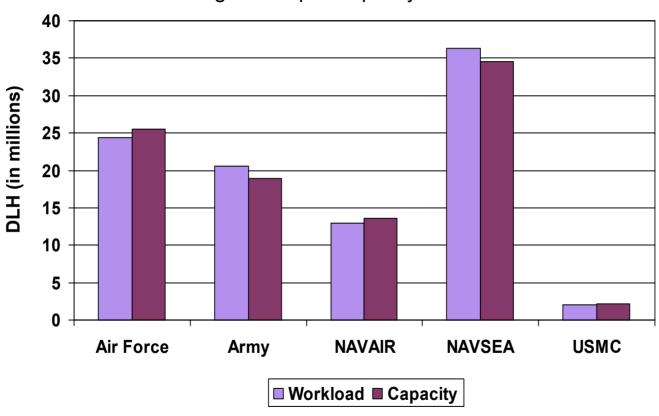


Source: Joint Group on Depot Maintenance *Depot Maintenance Business Profile:* FY2005–FY2011, August 2006 (Percentages may not equal 100% due to rounding.)

Maintenance Maintenance

Capacity Utilization of Organic Depot Maintenance

Overall Organic Depot Capacity Utilization: ~101%

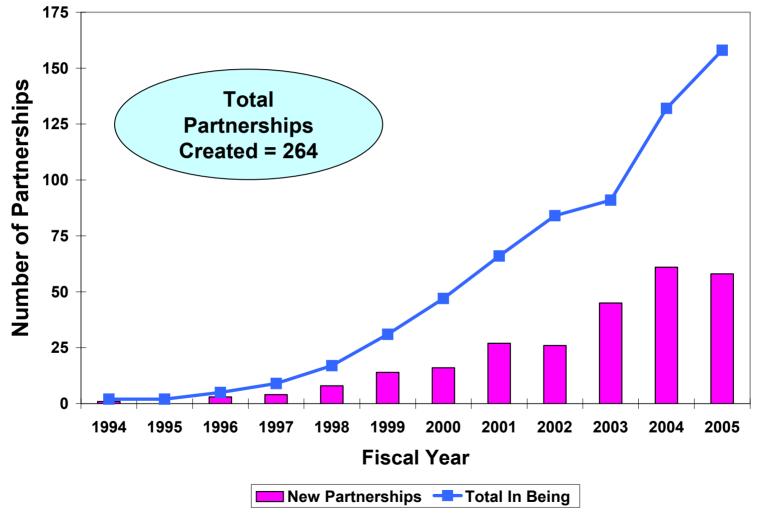


FY2005 data for DoD's 20 major depots.

Capacity metrics are based on single-shift operations without overtime or surge.

Public-Private Partnership Growth Trend

Maintenance



Source: Joint Depot Maintenance Activities Group, *Public-Private Partnerships* for Depot-Level Maintenance Through the End of Fiscal Year 2005, May 2006

Maintenance

2005 Phoenix Award Winner

The Highest Secretary of Defense Award for Field-Level Maintenance

3d Battalion, 7th Field Artillery Regiment, 25th Infantry Division (Light), Schofield Barracks, Hawaii United States Army

- Sustained a 97% operational readiness rate in support of CONUS and Pacific exercises and a combat deployment to Afghanistan
- Drove more than 95,000 miles and delivered 8,000 rounds of artillery and mortar fire
- Maintained more than 4,300 pieces of equipment with only 16 mechanics

2005 Secretary of Defense Maintenance Award Winners



Field Maintenance Awards

- 3rd Battalion, 7th Field Artillery Regiment, 25th Infantry Division (Light), Schofield Barracks, Hawaii, USA
- 428th Transportation Company, 89th Regional Readiness Command, Jefferson City, Missouri, USA
- USS GEORGE WASHINGTON (CVN 73), Naval Station Norfolk, Virginia, USN
- Aircraft Intermediate Maintenance Detachment, Naval Air Station New Orleans, Louisiana, USN
- Combat Service Support Battalion 12, (1st Maintenance Battalion),
 I Marine Expeditionary Force, Camp Pendleton, California, USMC
- 31st Maintenance Operations Squadron, 31st Maintenance Group,
 31st Fighter Wing, Aviano Air Base, Italy, USAF
- Robert T. Mason Award for Depot Maintenance Excellence
 - Marine Corps Maintenance Center, Albany; Vehicle Armor Protective Kits Program

Maintenance

2006 Secretary of Defense Maintenance Award Winners

- Helicopter Antisubmarine Squadron Light Four Seven, Naval Air Station North Island, California, USN
- 303d Intelligence Squadron, Osan Air Base, Republic of Korea, USAF
- 297th Transportation Company, Fort Hood, Texas, USA
- 437th Maintenance Squadron/315th Maintenance Squadron, Charleston Air Force Base, South Carolina, USAF
- 3rd Wing, Elmendorf Air Force Base, Alaska, USAF
- 3D Materiel Readiness Battalion, Okinawa, Japan, USMC

2006 Robert T. Mason Award

for Depot Maintenance Excellence



Red River Army Depot, Texarkana, Texas

High Mobility Multipurpose Wheeled Vehicle Recapitalization Program

- Initiated program to restore primarily battle-damaged vehicles to like-new condition
- Ramped up annual production from 43 to 2,789 vehicles
- Exceeded planned 2005 output by 33%
- Reduced average defects by 46%, cycle time by 45%, average cost by 42%, and direct hours by 55%
- Contributed significantly to meeting warfighter equipment needs

Reference

Acronyms

ACAT Acquisition Category

AIMD Aircraft Intermediate Maintenance Detachment

AD Army Depot

ADUSD(MR&MP) Assistant Deputy Under Secretary of Defense

for Materiel Readiness & Maintenance Policy

ALC Air Logistics Center

AMARC Aerospace Maintenance and Regeneration Center

AVIM Aviation Intermediate Maintenance

CONUS Continental United States
DLA Defense Logistics Agency

DLH Direct Labor Hour

DoD United States Department of Defense DMEA Defense Microelectronics Activity DS/GS Direct Support/General Support

DUSD(L&MR) Deputy Under Secretary of Defense for Logistics and Materiel Readiness

IMF Intermediate Maintenance Facility
LP&P Logistics Plans and Programs

MALS Marine Aviation Logistics Squadron

MC Maintenance Center MXG Maintenance Group

NAVAIR Naval Air Systems Command NAVSEA Naval Sea Systems Command

Reference

Acronyms (Cont.)

NSWC Naval Surface Warfare Center

NSY Naval Shipyard

NUWC Naval Undersea Warfare Center
OSD Office of the Secretary of Defense
PBL Performance-Based Logistics

PPBES Planning, Programming, Budgeting, and Execution System

SCI Supply Chain Integration
TP Transportation Policy
USA United States Army
USAF United States Air Force

USD(AT&L) Under Secretary of Defense for Acquisition, Technology, and Logistics

USMC United States Marine Corps

USN United States Navy

Reference

Explanatory Notes

- As depicted on page 7, DoD maintenance is performed at several levels of complexity, ranging from the rapid removal and replacement of components to complete overhaul or rebuild of a weapon system. The following terms are used throughout the *Fact Book*:
 - Depot-level for the most complex and extensive work
 - Intermediate-level for less complex maintenance performed in operating unit backshops, base-wide activities, or in consolidated regional facilities
 - Organizational-level for more time-sensitive work performed in the field, on the flight line, or at the equipment site
 - Field-level signifies the combination of the organizational and intermediate levels.
- All charts in this document reflect FY2005 year-end data unless otherwise noted.
- Personnel totals on pages 8–15 include personnel with maintenance skills. The depot total on page 8 also includes personnel with non-maintenance skills.
- An electronic version of this document, as well as other information about the responsibilities and functions of the DoD Materiel Readiness and Maintenance Policy office, is located on the following website: http://www.acq.osd.mil/log/mppr/index.htm.
- This document is published for information only and does not constitute official DoD correspondence.

